



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 25, 2015

Ms. Linda Obrestad  
Regulatory Analyst  
Registration and Regulatory Affairs  
Valent U.S.A. Corporation  
1600 Riviera Avenue – Suite 200  
P.O. Box 8025  
Walnut Creek, CA 94596-8025

Subject: Notification per PRN 98-10 – Add Text/ New York State Restriction for  
Aerial Use  
Product Name: ZEAL® SC Miticide  
EPA Registration Number: 59639-202  
Application Date: June 2, 2015  
Decision Number: 506041

Dear Ms. Obrestad:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

If you have any questions, you may contact Melody Banks at 703 305 5413 or via email at Banks.Melody@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Melody Banks for".

Venus Eagle, Product Manager 1  
Invertebrate & Vertebrate Branch 3  
Registration Division (7505P)  
Office of Pesticide Programs



**GROUP 10B ACARICIDE**

**NOTIFICATION – REDLINE COPY**

[Bracketed Information is Optional Text]

**NOTIFICATION**

59639-202

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

06/25/2015

# Zeal<sup>®</sup> SC Miticide

Active Ingredient	By Wt
Etoxazole* .....	31.7%
Other Ingredients .....	68.3%
Total	100.0%

\*2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole

Zeal<sup>®</sup> SC Miticide is a soluble concentrate containing 2.88 lb active ingredient etoxazole per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

**SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

EPA Reg. No. 59639-202  
EPA Est. No.

**NET CONTENTS [2.5] [5] GALLONS**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS & DOMESTIC ANIMALS

#### CAUTION

##### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **800-892-0099** for emergency medical treatment information.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

##### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS:

This pesticide is toxic to freshwater and marine/estuarine aquatic invertebrates, including oysters and shrimp. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific **instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE) and restricted-entry interval**. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water), is: long sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material and shoes plus socks.

**Always mix product thoroughly before use.**

### **CHEMIGATION**

**RESTRICTION: Do not apply this product through any type of irrigation or chemigation system.**

### **RESISTANCE MANAGEMENT**

*Zeal* SC Miticide is a Group 10B acaricide. Mite biotypes with acquired resistance to Group 10B may eventually dominate the mite population if Group 10B acaricides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by *Zeal* SC Miticide or other Group 10B acaricides.

To delay mite resistance consider:

- Avoiding the consecutive use of *Zeal* SC Miticide or other Group 10B acaricides that have a similar target site of action, on the same mite species.
- Using tank mixtures or premixes with insecticides from different target site of action Group as long as such products are registered for the same use and have different sites of action.
- Basing acaricide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated mite populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for acaricide resistance management and/or IPM recommendations for specific site and resistant pest problems.

Follow local, state and federal IPM and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

For further information or to report suspected resistance, you may contact Valent U.S.A. Corporation at the following toll-free number: 800-682-5368.

### **TANK MIXES**

**NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.**

Read and follow the most restrictive label language found on each product to be used in the tank mix with this product.

**CANEBERRY [(Subgroup 13-07A)]**

Blackberry; Loganberry; Raspberry, Black; Raspberry, Red; Raspberry, Wild; Cultivars varieties and/or hybrids of these

<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
European Red Spider Mite McDaniel Spider Mite Two-spotted Spider Mite Yellow Spider Mite	4.0 to 6.0	6.0	1	0

\*Pre-Harvest Interval

Do not apply more than 0.135 lb of ai/A per calendar year.

**USE INSTRUCTIONS**

Apply by ground as a full coverage spray in a minimum of 50 gals/A of water. Applications of *Zeal* SC Miticide must be done using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites are using for dispersal, feeding and reproduction. Use higher water volumes on older trees and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.

Best results are achieved when mite populations are low. *Zeal* SC Miticide is predominately an ovicide/larvicide. Apply *Zeal* SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zeal* SC Miticide or other acaricides.

**FIELD CORN, POPCORN, CORN (Grown For Seed Production)**

<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
Banks Grass Mite <sup>1</sup> Carmine Spider Mite Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	2.0 to 6.0	6.0	2	21

**\*Pre-Harvest Interval**

Do not apply more than 0.27 lb ai/A per calendar year.

**USE INSTRUCTIONS**

Apply with [air\*\* or] ground equipment in adequate water for uniform coverage ([a minimum of 3 gals/A by air\*\* or] a minimum of 10 gals/A [by ground]). Coverage is essential for good control. Use of higher water volume will assure better coverage. Applications of *Zea/ SC* Miticide are recommended before tasseling stage to allow good coverage and provide better control.

For field corn utilized for seed production apply *Zea/ SC* Miticide before or at tasseling growth stage. If a second application is needed wait for 14 days to re-treat with *Zea/ SC* Miticide.

Best results are achieved when mite populations are below threshold or beginning to build up on the plants. *Zea/ SC* Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Always follow the recommended threshold for your area.

Do not use rates below 2.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

**Restriction:** Do not apply treatments less than 14 days apart.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zea/ SC* Miticide or other acaricides.

<sup>1</sup> Applications targeting exclusively Banks grass mites may require higher rates particularly if populations have exceeded the established threshold in the fields to be treated with *Zea/ SC* Miticide. Also, under extreme drought conditions and higher populations Banks grass mites might require more than one application of a miticide.

\*Pre-Harvest Interval

[\*\* Not approved for aerial application in New York]

<b>COTTON</b>				
<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
Carmine Spider Mite Pacific Spider Mite Two-spotted Spider Mite	1.33 to 2.0	2.0	1	28
<p>*Pre-Harvest Interval</p> <p>Do not apply more than 0.09 lb ai/A per calendar year.</p> <p><b>USE INSTRUCTIONS</b></p> <p>Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals/A by air or 10 to 50 gals/A by ground). Coverage is essential for good control. Use of higher water volume will assure better coverage.</p> <p>Best results are achieved when mite populations are low. <i>Zea/ SC</i> Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <i>Zea/ SC</i> Miticide at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p>Do not use rates below 1.33 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p> <p>See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to <i>Zea/ SC</i> Miticide or other acaricides.</p>				

**CUCURBIT VEGETABLES**

Acorn Squash; Balsam Apple; Balsam Pear; Bittermelon; Butternut Squash; Calabaza Squash; Cantaloupe; Chayote (fruit); Chinese Cucumber; Chinese Okra; Chinese Waxgourd (Chinese Preserving Melon); Citron Melon; Cucumber; Cucuzza; Gherkin; Gourd, Edible; Hechima; Hubbard Squash; Hyotan; *Momordica* spp.; Muskmelon; Pumpkin; Spaghetti Squash; Summer Squash; Watermelon; Winter Squash

<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
Two-spotted Spider Mite Carmine Spider Mite Pacific Spider Mite Strawberry Spider Mite	4.0 to 6.0	6.0	1	7

~~\*Pre-Harvest Interval~~

Do not apply more than 0.135 lb ai/A per calendar year.

**USE INSTRUCTIONS**

Apply with [air\*\* or] ground equipment in adequate water for uniform coverage ([a minimum of 3 gals/A by air\*\* or] a minimum of 10 gals/A [by ground]). Coverage is essential for good control. Use of higher water volume will assure better coverage.

Applications of *Zeal* SC Miticide must be made using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites use for dispersal, feeding and reproduction. Use higher water volumes on more mature plants and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.

Best results are achieved when mite populations are low. *Zeal* SC Miticide is predominately an ovicide/larvicide. Apply *Zeal* SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zeal* SC Miticide or other acaricides.

\*Pre-Harvest Interval

[\*\* Not approved for aerial application in New York]

<b>HOPS</b>				
<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per Application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
Two-spotted Spider Mite	6.0 to 8.0	8.0	1	7
<p>*Pre-Harvest Interval</p> <p>Do not apply more than 0.18 lb ai/A per calendar year.</p> <p><b>USE INSTRUCTIONS</b></p> <p>Apply with ground equipment in a minimum of 50 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage.</p> <p>Best results are achieved when mite populations are low. <i>Zeal</i> SC Miticide is predominately an ovicide/larvicide. Apply <i>Zeal</i> SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p>Do not use rates below 6.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p> <p>See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to <i>Zeal</i> SC Miticide or other acaricides.</p>				

**LOW GROWING BERRY [(Subgroup 13-07G)]**

Bearberry; Bilberry; Blueberry, Lowbush; Cloudberry; Cranberry; Lingonberry; Muntries; Partridgeberry; Strawberry; Cultivars, varieties, and/or hybrids of these

<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
European Red Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	1

\*Pre-Harvest Interval

Do not apply more than 0.135 lb ai/A per calendar year.

**USE INSTRUCTIONS**

Apply with ground equipment in a minimum of 100 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage.

Best results are achieved when mite populations are low. *Zea/ SC* Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply *Zea/ SC* Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

*Zea/ SC* Miticide will not control Cyclamine Mite. Another miticide registered for this pest should be used if these mites are a problem.

Do not use rates below 4.0 oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zea/ SC* Miticide or other acaricides.

TANK MIX INSTRUCTIONS FOR LOW GROWING BERRY [(Subgroup 13-07G)]				
Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Two-spotted Spider Mite	4.0 to 6.0 + 10 2/3 fl oz Danitol® 2.4 EC Insecticide (0.2 lb ai/A)	6.0	1	1
<p>*Pre-Harvest Interval</p> <p><b>USE INSTRUCTIONS</b> Comply with the most restrictive directions for use restrictions and precautions on both labels.</p> <p>Apply with ground equipment in adequate water for uniform coverage (using a minimum of 100 gals/A).</p> <p>Alternate with other non-pyrethroid insecticides if retreatment is needed in less than 30 days to comply with local IPM programs.</p> <p>See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to <i>Zeal</i> SC Miticide or other acaricides.</p>				

<b>MINT (Peppermint and Spearmint)</b>				
<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	4.0 to 8.0	8.0	1	7
<p><del>*Pre-Harvest Interval</del></p> <p>Do not apply more than 0.36 lb ai/A per calendar year.</p> <p><b>USE INSTRUCTIONS</b> Apply with [air** or] ground equipment in adequate water for uniform coverage (minimum of [10 gals/A by air** or] 50 gals/A [by ground]). Coverage is essential for good control. Use of higher water volume will assure better coverage.</p> <p>Best results are achieved when mite populations are low. <i>Zea/ SC Miticide</i> is predominately an ovicide/larvicide. Apply <i>Zea/ SC Miticide</i> at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p>Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p> <p>See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to <i>Zea/ SC Miticide</i> or other acaricides.</p>				

\*Pre-Harvest Interval

[\*\* Not approved for aerial application in New York]

**PEPPER AND EGGPLANT [(Subgroup 8-10B)]**

African Eggplant; Bell Pepper; Eggplant; Martynia; Non-Bell Pepper; Okra; Pea Eggplant; Pepino; Roselle; Scarlet Eggplant; Cultivars, varieties and/or hybrids of these

<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
Two-spotted Spider Mite	4.0 to 6.0	6.0	1	7

**\*Pre-Harvest Interval**

Do not apply more than 0.27 lb ai/A per calendar year.

**USE INSTRUCTIONS**

Apply with ground equipment in a minimum of 20 gals/A of water. Applications of *Zea/ SC* Miticide must be made using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites use for dispersal, feeding and reproduction. Use higher water volumes on more mature plants and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.

Best results are achieved when mite populations are low. *Zea/ SC* Miticide is predominately an ovicide/larvicide. Apply *Zea/ SC* Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zea/ SC* Miticide or other acaricides.

<b>POME FRUIT [(Crop Group 11)]</b>				
Apple; Crabapple; Loquat; Mayhaw; Pear; Pear, Asian; Quince				
<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	14
<p>*Pre-Harvest Interval</p> <p>Do not apply more than 0.27 lb ai/A per calendar year.</p> <p><b>USE INSTRUCTIONS</b></p> <p>Apply by ground with airblast equipment in a minimum of 100 gals/A. Coverage is essential for good control. Use of higher water volume will assure better coverage.</p> <p>Best results are achieved when mite populations are low. <i>Zeal</i> SC Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <i>Zeal</i> SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p><i>Zeal</i> SC Miticide will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternative miticide registered for that use.</p> <p>Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p> <p>See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to <i>Zeal</i> SC Miticide or other acaricides.</p>				

**SMALL FRUIT VINE CLIMBING, EXCEPT FUZZY KIWIFRUIT [(Subgroup 13-07 F)]**

Amur River Grape; Gooseberry; Grape; Kiwifruit, Hardy; Maypop; Schisandra Berry; Cultivars, varieties, and/or hybrids of these

<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
European Red Mite Pacific Spider Mite Two-spotted Spider Mite Willamette Mite	4.0 to 6.0	6.0	1	14

**\*Pre-Harvest Interval**

Do not apply more than 0.135 ai/A per calendar year.

**USE INSTRUCTIONS**

Apply by ground as a full coverage spray in a minimum of 25 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage.

Best results are achieved when mite populations are low. *Zea/ SC* Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply *Zea/ SC* Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

*Zea/ SC* Miticide will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternative miticide registered for that use.

Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zea/ SC* Miticide or other acaricides.

**STONE FRUIT [(Crop Group 12)]**

Apricot; Cherry (sweet and tart); Nectarine; Peach; Plum; Plum, Chickasaw; Plum, Damson; Plum, Japanese; Plumcot; Prune (fresh)

<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
European Red Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	7

**\*Pre-Harvest Interval**

Do not apply more than 0.27 lb ai/A per calendar year.

**USE INSTRUCTIONS**

Apply with ground equipment in a minimum of 50 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage.

Best results are achieved when mite populations are low. *Zeal* SC Miticide is predominately an ovicide/larvicide. Apply *Zeal* SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zeal* SC Miticide or other acaricides.

**TREE NUTS**

Almond; Beech Nut; Brazil Nut; Butternut; Cashew; Chestnut; Chinquapin; Filbert (Hazelnut); Hickory Nut; Macadamia Nut; Pecan; Pistachio; Walnut (Black and English)

<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI* Days</b>
European Red Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	28

\*Pre-Harvest Interval

Do not apply more than 0.135 lb ai/A per calendar year.

**USE INSTRUCTIONS**

Apply by ground with airblast equipment as a full coverage spray.

Best results are achieved when mite populations are low. *Zeal* SC Miticide is predominately an ovicide/larvicide. Apply *Zeal* SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zeal* SC Miticide or other acaricides.

<b>NON-BEARING FRUIT TREES</b>				
<b>Pests</b>	<b>Product Rate fl oz/Acre</b>	<b>Maximum Rate per application fl oz/Acre</b>	<b>Maximum Applications per Season</b>	<b>PHI*</b>
European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	One Year
<p>*Pre-Harvest Interval</p> <p>Do not apply more than 0.135 lb ai/A per calendar year.</p> <p><b>USE INSTRUCTIONS</b> Apply by ground with airblast equipment as a full coverage spray.</p> <p>Best results are achieved when mite populations are low. <i>Zeal</i> SC Miticide is predominately an ovicide/larvicide. Apply <i>Zeal</i> SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p>Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p> <p>See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to <i>Zeal</i> SC Miticide or other acaricides.</p>				

**TROPICAL AND SUB-TROPICAL FRUIT (INEDIBLE PEEL)**

Avocado; Canistel; Mango; Papaya; Sapodilla; Sapote, Black; Sapote, Mamey; Star Apple

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Avocado Brown Mite Persea Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	1

**\*Pre-Harvest Interval**

Do not apply more than 0.135 lb ai/A per calendar year.

**USE INSTRUCTIONS**

Apply with [air\*\* or] ground equipment in adequate water for uniform coverage ([minimum 20 gals/A by air\*\* or] minimum 50 gals/A [by ground]). Applications of *Zeal* SC Miticide must be made using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites use for dispersal, feeding and reproduction. Use higher water volumes on more mature plants and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.

Best results are achieved when mite populations are low. *Zeal* SC Miticide is predominately an ovicide/larvicide. Apply *Zeal* SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zeal* SC Miticide or other acaricides.

\*Pre-Harvest Interval

[\*\*Not approved for aerial application in New York]

## **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

### **PESTICIDE STORAGE**

Keep pesticide in original container.

Do not put concentrate or dilute into food or drink containers.

Store in cool, dry place.

Do not store diluted spray.

For help with any spill, leak, fire or exposure involving this material, call day or night **(800) 892-0099**.

### **PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER HANDLING**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill.

**DISCLAIMER, RISKS OF USING THIS PRODUCT,  
LIMITED WARRANTY  
AND LIMITATION OF LIABILITY**

**IMPORTANT:** Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

**RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product, which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

**LIMITED WARRANTY**

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label **and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY**

**To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

**PROMPT NOTICE OF CLAIM**

Valent must be provided with prompt notice of any claim so that an immediate inspection of the affected property or plants can be made. To the extent applicable law allows such requirement, notice of a claim shall be given promptly to Valent, whether the claim is based on contract, negligence, strict liability, or other tort or otherwise be barred from any remedy.

**NO AMENDMENTS**

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

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Manufactured for:

**Valent U.S.A. Corporation**

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